

SEQUENCE LISTING

<110> Walker, John
Lee, Rogan
Dougherty, Stephen W.

<120> Antigen Composition Against Mycoplasma

<130> U-011415-0

<140> US 08/913,430

<141> 1997-09-12

<150> PCT/AU96/00149

<151> 1996-03-15

<150> PN 1789

<151> 1995-03-16

<160> 18

<170> PatentIn Ver. 2.0 - beta

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<211> 1782

<212> DNA

<213> Mycoplasma hyopneumoniae

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<213> Mycoplasma hyopneumoniae

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35 40 45

Leu Lys His Lys Val Ser Asn Asp Ser Ile Arg Ile Ala Leu Thr Asp
50 55 60

Pro Asp Asn Pro Arg Trp Ile Ser Ala Gln Lys Asp Ile Ile Ser Tyr
65 70 75 80

Val Asp Glu Thr Glu Ala Ala Thr Ser Thr Ile Thr Lys Asn Gln Asp
85 90 95

Ala Gln Asn Asn Trp Leu Thr Gln Gln Ala Asn Leu Ser Pro Ala Pro
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Lys Gly Phe Ile Ile Ala Pro Glu Asn Gly Ser Gly Val Gly Thr Ala
115 120 125

Val Asn Thr Ile Ala Asp Lys Gly Ile Pro Ile Val Ala Tyr Asp Arg
130 135 140

Leu Ile Thr Gly Ser Asp Lys Tyr Asp Trp Tyr Val Ser Phe Asp Asn
145 150 155 160

Glu Lys Val Gly Glu Leu Gln Gly Leu Ser Leu Ala Ala Gly Leu Leu
165 170 175

Gly Lys Glu Asp Gly Ala Phe Asp Ser Ile Asp Gln Met Asn Glu Tyr
180 185 190

Leu Lys Ser His Met Pro Gln Glu Thr Ile Ser Phe Tyr Thr Ile Ala
195 200 205

Gly Ser Gln Asp Asp Asn Asn Ser Gln Tyr Phe Tyr Asn Gly Ala Met
210 215 220

Lys Val Leu Lys Glu Leu Met Lys Asn Ser Gln Asn Lys Ile Ile Asp
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 Leu Ser Pro Glu Gly Glu Asn Ala Val Tyr Val Pro Gly Trp Asn Tyr
 245 250 255
 Gly Thr Ala Gly Gln Arg Ile Gln Ser Phe Leu Thr Ile Asn Lys Asp
 260 265 270
 Pro Ala Gly Gly Asn Lys Ile Lys Ala Val Gly Ser Lys Pro Ala Ser
 275 280 285
 Ile Phe Lys Gly Phe Leu Ala Pro Asn Asp Gly Met Ala Glu Gln Ala
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 Ile Thr Lys Leu Lys Leu Glu Gly Phe Asp Thr Gln Lys Ile Phe Val
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 Thr Arg Gln Asp Tyr Asn Asp Lys Ala Lys Thr Phe Ile Lys Asp Gly
 325 330 335
 Asp Gln Asn Met Thr Ile Tyr Lys Pro Asp Lys Val Leu Gly Lys Val
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 Ala Val Glu Val Leu Arg Val Leu Ile Ala Lys Lys Asn Lys Ala Ser
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 Arg Ser Glu Val Glu Asn Glu Leu Lys Ala Lys Leu Pro Asn Ile Ser
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 Phe Lys Tyr Asp Asn Gln Thr Tyr Lys Val Gln Gly Lys Asn Ile Asn
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<213> Mycoplasma hyopneumoniae

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<223> Undetermined

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Gln Ala Glu Thr Leu Lys His Lys Val
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<210> 4

<211> 29

<212> PRT

<213> Mycoplasma hyopneumoniae

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Thr Ile Tyr Lys Pro Asp Lys Val Leu Gly Lys Val Ala Val Glu Val
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Leu Arg Val Leu Ile Ala Lys Lys Asn Lys Ala Ser Arg
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<210> 5

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<213> Mycoplasma hyopneumoniae

<400> 5

Ala Glu Gln Ala Ile Thr Lys Leu Lys Leu Glu Gly Phe Asp Thr Gln
5 10 15

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<212> PRT

<213> Mycoplasma hyopneumoniae

<400> 6

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D'
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<212> PRT

<213> Mycoplasma hyopneumoniae

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<212> PRT

<213> Mycoplasma hyopneumoniae

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Ala Ile Val Thr Ala Asp Gly Thr Val Asn Asp Asn Lys Pro Asn Gln
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Trp Val Arg Lys Tyr
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<210> 10

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<213> Mycoplasma hyopneumoniae

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<221> VARIANT

D' cont.
<222> (12)

<223> Residue may be Asn or Leu

<220>

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<222> (13)

<223> Residue may be Met or Val

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<213> Mycoplasma hyopneumoniae

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<222> (4)

<223> Residue may be Phe or Ile

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<221> VARIANT

<222> (5)

<223> Residue may be Arg or Glu

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<223> Residue may be Val or Ala

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<223> Residue may be Gln or Ala

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<223> Residue may be Met or Asn

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<213> Mycoplasma hyopneumoniae

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Ala Leu

<210> 13

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<212> PRT

<213> Mycoplasma hyopneumoniae

<400> 13

Ala Lys Asn Phe Asp Phe Ala Pro Ser Ile Gln Gly Tyr Lys Lys Ile
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Ala His Glu Leu
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<210> 14

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<213> Mycoplasma hyopneumoniae

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<210> 16

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<212> DNA

<213> Mycoplasma hyopneumoniae

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<223> primer sequence with modified base: inosine ("i")

<220>

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<223> primer sequence with modified base: inosine ("i")

<400> 16

acnaacgacg agaagccnca ggc

23

<210> 17

<211> 23

<212> DNA

<213> Mycoplasma hyopneumoniae

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<222> (15)

<223> primer sequence with modified base: inosine ("i")

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<210> 18

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<222> (18)

<223> primer sequence with modified base: inosine ("i")

<400> 18

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20